Proof. By Lemma 6.3, m is the intersection of the diagonals of the parallelogram $pqrs$. Since $p, p', r \in C(m, \lambda)$ and since m is the midpoint of $[pr]$, we have

$$\|m - p'\| = \frac{1}{2}\|p - r\|.$$

This means that the diagonals of the parallelogram spanned by $p - p'$ and $p' - r$ have the same length, i.e., $p - p' \# p' - r$. The remaining relations in (14) can be proven in the same way. □

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